

Specific recommendations for 2.3 GHz WCS auctions (cont'd)

- Capacity sould be provided on a "carriers" carrier" basis, or in other resconsble and nondecriminatory manner
- Opportunities for small businesses and other designated entities to participate will exist, without need for special provisions in the auction rules

- * Mechanisms for capacity sharing could take the form of market-driven purchase of capacity from the "infrastructure provider", not discimilar to the "carriers" carrier concept, although in this case the "infrastructure provider" could also be a retail service or contest provider, either directly or through a subsidiary.
- * The opportunity for small businesses and other designated entitles to participate, both as sublicensess/franchisees of spectrum rights and as retail providers of products and services, will exist. There is no need to make special provisions for designated entitles in the sustion rules.



- Commenters desire to provide a range of new services
 - Fixed and "temperary fixed" services for data and voice
 - Limited mobility (low -tier with no high-speed handoff)
- Regulatory proscription of full mobility may not be necessary

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Permitted Services:

To the extent the Commusion believes it is necessary to limit the range of permissible services, the allocation of this spectrum for fixed, temperary fixed and/or low-tier mobility services appears reasonable. There appears to be a significant interest in provision of voice and high spend data services, including wireless local loop and wireless fautmet access.

Limiting the fluxibility of the spectrum to these types of services/applications would be conductive to manufacturing efficiencies needed to make these services affordable to the general public.

- This point was made by various manufacturers who responded to the NPRM (Alcatel, DSC, Lucent and Motorcia).
- The PCS suctions, both broadband and narrowband, have made ample spectrum available for mobility applications.

Limining the permissible use to fixed or low-tier mobility services would also mitigate technical concerns such as spectrum sharing, interference, etc. and also promote demostic-international interoperability.

As a practical matter, such a limitation may not be necessary, if the broadband spectrum cap is preserved. In major metropolitan areas, the WCS licensee is likely to be the sixth (or even the ninth or tenth) broadband entrant. It is difficult to envision a viable business plan premised on "more of the same" high-tier mobility, far more likely is a more specialized (voice, data, or both) service with broad geographic coverage.



- Full 30 MHz needed to deliver ubiquitous, quality services
- · Rough parity with CMRS bandwidth
- Fragmentation would risk making services non-viable

For the kind of services described, a full 30 MHz of spectrum, 15 MHz each way, appears to be the minimum bandwidth capable of delivering a wide range of digital services, from "wire-line" quality voice to high-speed internet access.

- Making 30 MHz available to a single licenses would also provide parity with the A. B. C PCS licenses, and rough parity with the callular carriers.
- * Fragmenting the allocation into blocks as small as 10, 5, or even I MHz (as suggested by some commentars) would likely render the allocation largely unusable, especially if licenses were awarded for multiple geographic ereas.



Build-Out Requirements

- If necessary at all, should be based on percentage of population served
- . Given lack of technology development, extended buildout period should be available
- "Substantial service" requirement may be sufficient protection against warehousing

For a national license, the best (and perhaps only realistic) way to specify these requirements would be based on percentage of population served as a function of time.

It is important to bear in mind the unique prestical constraints associated with this head; unlike PCS at 1900 MISE, there has been no opportunity for the "infrastructure" providers and equipment vandors to begin the process of developing and manufacturing equipment. It will take some time to design the hardware and make it available in quantity and, concurrently, to obtain financing needed to build the infrastructure.

At a minimum, there should be a requirement that "substantial service" be rendered to the public during the latter half of a ten year ligenes term.



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License Eligibility

- Exclude facilities-based providers in their respective service areas
- Public will derive benefit from opportunity to acquire services from additional facilities-based providers
- Incumbents have incentive to deny access to potential competitors or to marginalize the use of spectrum

Promotion of facilities-based computition is important, to ensure that communes have the breedest possible array of choices among service providers. For this reason, we recommend that those entities which already have facilities-based capability, either wired or wireless, be excluded from aligibility to bid (or to hold a "sublicense" or "franchise"), but only within their licensed/franchised service areas. Flexible geographic pertitioning in this band (and an CMRS) will mean that no one is novessarily precluded from accessing spectrum needed to expend their service arces.

- Incumbent LECs and cable system operators have their own facilities-based capability, in the form of copper, coaxial cable and/or fiber
- Breedband CMRS licensess already possess, or can purchase via action or in the secondary market. spectrum sufficient to meet their pends.
- There is no need for a rural LEC exemption, given their existing partitioning rights in the CMRS
- None of the eligibility restrictions enumerated above would prevent any entity from participating as a service provider or content provider anywhere; the eligibility restrictions only affect the right to hold the license or otherwise exercise control over the spectrum.

Allowing these estates to hold licenses for more than 45 MHz of breedband spectrum - existing cap -would give them the means to control the pase of buildout, and to play infrastructures that supported products and services which were complementary to, not competitive with, their existing offerings.

The public interest is best zerved by the evallability of facilities-based telecommunications and information services from a wide range of competing suppliers. Given the inherent scarcity of spectrum, rules which permit those who already control access into homes, business (and vehicles) to acquire control of additional spectrum would be contrary to the overall public interest.